Comparative anti-angiogenesis activity of extracts of various parts of Indian dhak tree belonging to family Fabaceae

Madhavi Apte and Milind Bhitre
SNDT Women’s University, India

As stated by GLOBOCAN 2012, the global burden of cancer is increasing. Despite availability of advanced therapeutic modalities and treatment, still the cancer cure remains challenging in area of arrest of tumor growth and relaps after surgical removal. Hence, another therapeutic approach is required. Angiogenesis plays an important role in development and progression of tumor cells. Growth of the tumor can be arrested by inhibiting the tumor angiogenesis. Substantial effort has been made to identify compounds that can be used to either prevent insurgence of primary tumors in subjects at high risk to develop cancer or prevent tumor relapse after surgical removal. The various phytoconstituents like alkaloids, glycosides, polyphenols, terpenes, terpenoids, pigments, polysaccharides which have been reported to possess the antiangiogenic property. Natural compounds have shown antiangiogenesis property and may be acting through different pathway. Many of the drugs have been extracted from the plant origin and being used globally in allopathic medicine. Medicinal plants play an important role for pharmaceutical research and new drug development. One of such trees belonging to family Fabaceae has been widely used in the traditional Indian medical system (Ayurveda) for the treatment of a variety of ailments. Hence the research work undertaken to study and compare the anti-angiogenic activity of extract of various parts like flowers, bark, leaf, seeds by conducting various studies like chorioallantoic membrane assay method along with other pharmacognostical studies.

Biography

Madhavi Apte has completed her MPharm from Mumbai University, K M Kundnani College of Pharmacy and currently pursuing PhD program from SNDT Women’s University, CU Shah College of Pharmacy. She has 6 years of industrial experience in companies like USV Ltd. and Cipla as an Executive in scientific services and in Indi Pharma as a Product Manager. Presently, she is working with SVKM’s Dr. Bhanuben Nanavati College of Pharmacy as an Assistant Professor in Pharmacognosy Department. She has 5 publications and her research interest is on medicinal plants and herbal formulations studies.

A_madhaviin@yahoo.com